

U.S. Department of Transportation

IAEA CERTIFICATE OF COMPETENT AUTHORITY SPECIAL FORM RADIOACTIVE MATERIALS

Pipeline and Hazardous Materials Safety Administration CERTIFICATE USA/0823/S-96, REVISION 2

This certifies that the source described has been demonstrated to meet the regulatory requirements for special form radioactive material as prescribed in the regulations of the International Atomic Energy Agency 1 and the United States of America 2 for the transport of radioactive material.

- 1. Source Identification ORNL Pu Cylindrical Source.
- 2. Source Description Cylindrical single encapsulation made of Type 304L stainless steel and tungsten inert gas seal welded. An inner cylindrical assembly made of Type 304L stainless steel with a press fit lid contains the radioactive contents. Approximate exterior dimensions are 22.4 mm (0.88 in.) in diameter and 58.4 mm (2.3 in.) in length. Construction shall be in accordance with attached UT-Battelle Drawing No. N3E020995A537, Rev. A, Sheet 1 of 3.
- 3. Radioactive Contents No more than 101 GBq (2.73 Ci) of Plutonium-238, 35.7 GBq (0.965 Ci) of Plutonium-239, 131 GBq (3.54 Ci) of Plutonium-240, 608 GBq (16.4 Ci) of Plutonium-241, 2.33 GBq (63 mCi) of Plutonium-242, and 10.4 MBq (0.281 mCi) of Plutonium-244. The source contents may be a mix of the plutonium isotopes, but shall not exceed 15.54 grams of total plutonium. The Pu-238, Pu-239, Pu-240, Pu-241, Pu-242, and Pu-244 are in solid oxide form.
- 4. Management System Activities Records of Management System activities required by Paragraph 306 of the IAEA regulations shall be maintained and made available to the authorized officials for at least three years after the last shipment authorized by this certificate. Consignors in the United States exporting shipments under this certificate shall satisfy the requirements of Subpart H of 10 CFR 71.

 1 "Regulations for the Safe Transport of Radioactive Material, 2012 Edition, No. SSR-6" published by the International Atomic Energy Agency (IAEA), Vienna, Austria.

 $^{^2}$ Title 49, Code of Federal Regulations, Parts 100-199, United States of America.

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5. Expiration Date - This certificate expires on June 30, 2027. Previous editions which have not reached their expiration date may continue to be used.

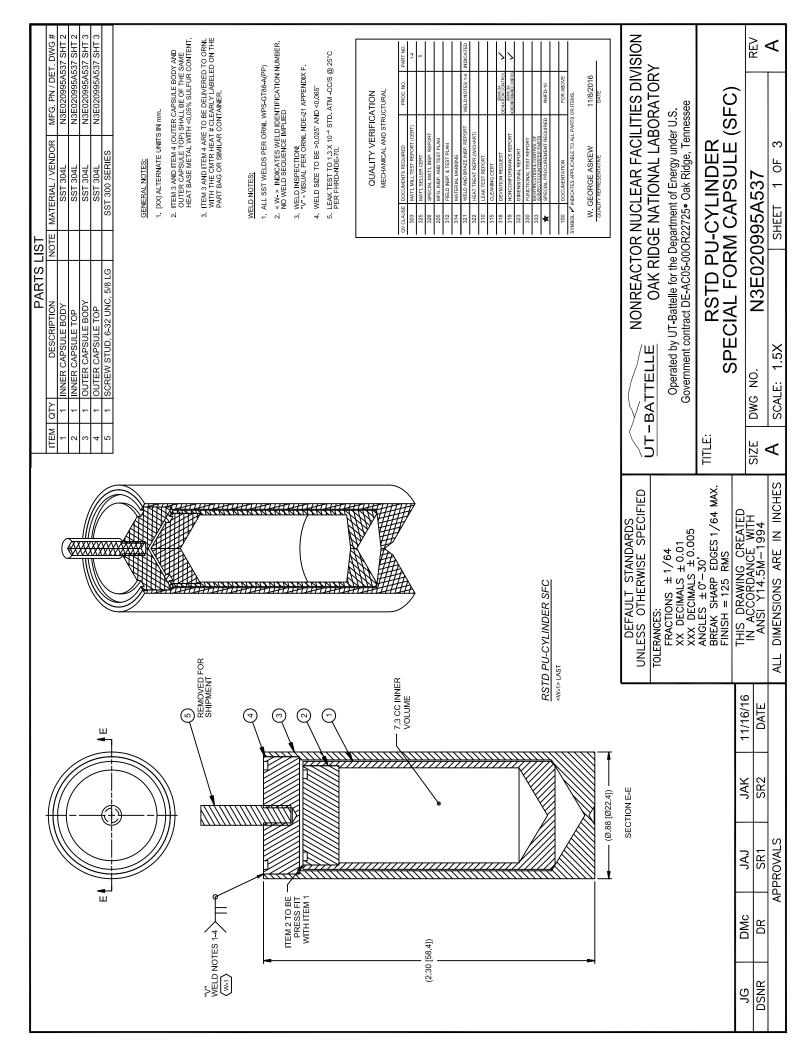
This certificate is issued in accordance with paragraph(s) 804 of the IAEA Regulations and Section 173.476 of Title 49 of the Code of Federal Regulations, in response to the June 10, 2022 petition by Department of Energy, Washington, DC, and in consideration of other information on file in this Office.

Certified By:

William Schoonover

William Schoonover Associate Administrator for Hazardous Materials Safety June 27, 2022 (DATE)

Revision 2 - Issued to revise the authorized radioactive contents.







Pipeline and Hazardous Materials Safety Administration

CERTIFICATE NUMBER: USA/0823/S-96

ORIGINAL REGISTRANT(S):

Department of Energy U.S. Department of Energy 1000 Independence Ave, SW EM-60 Washington, DC, 20585 USA